

1.

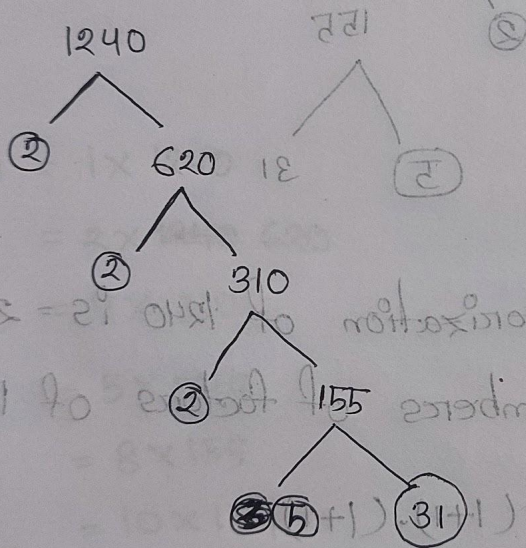
\* Division method

$$\begin{array}{r}
 2 \overline{)1240} \\
 \underline{2 \ 620} \\
 2 \overline{)310} \\
 \underline{5 \ 155} \\
 31
 \end{array}$$

\* Multiplication method  
\* Tree Diagram \*

$$\begin{aligned}
 1240 &= 2 \times 620 = 2 \times 2 \times 310 \\
 &= 2^2 \times 2 \times 155 \\
 &= 2^3 \times 5 \times 31
 \end{aligned}$$

\* Tree Diagram



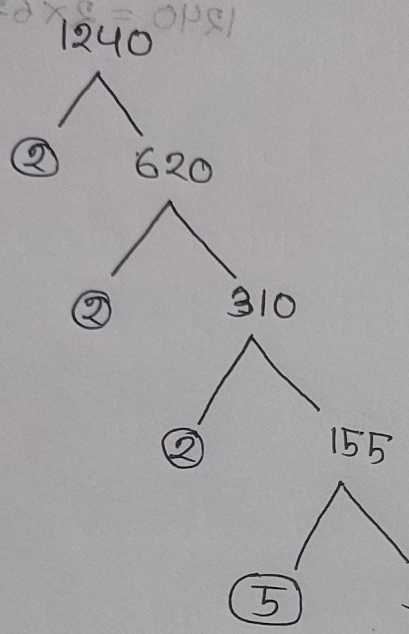
Therefore, the prime factorization of 1240 is

$$= 2^3 \cdot 5 \cdot 31$$

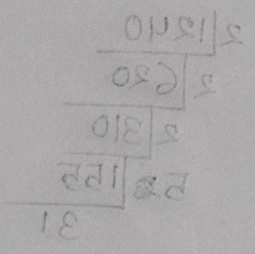
2. \* Multiplication method  
\* Tree Diagram

$1240 = 2 \times 2 \times 2 \times 5 \times 31$

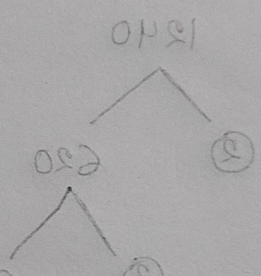
$1240 = 2 \times 620$   
 $620 = 2 \times 310$   
 $310 = 2 \times 155$   
 $155 = 5 \times 31$



\* Division method



\* Tree Diagram



$\therefore$  The prime factorization of 1240 is  $= 2^3 \cdot 5 \cdot 31$

So, the total numbers of factors of 1240 is

$$= (3+1) \cdot (1+1) \cdot (1+1)$$

$$= 4 \cdot 2 \cdot 2$$

Therefore, the prime factorization of 1240 is

$$1240 = 2^3 \cdot 5 \cdot 31$$

3.

$$\begin{array}{r} 2 \overline{)1240} \\ \underline{2 \quad 620} \\ 2 \overline{)310} \\ \underline{5 \quad 155} \\ 31 \end{array}$$

So, the prime factors of 1240 are = ~~2, 5, 31~~ 2, 5, 31.

4.

$$\begin{aligned} 1240 &= 1 \times 1240 \\ &= 2 \times \del{1240} 620 \\ &= 4 \times 310 \\ &= 5 \times 248 \\ &= 8 \times 155 \\ &= 10 \times 124 \\ &= 20 \times 62 \\ &= 31 \times 40 \end{aligned}$$

So, the composite factors of 1240 are =

~~1~~, ~~2~~ 4, ~~2~~ 8, 10, 20, ~~2~~ 40, 62, 124, 155, 248, 310, 620, 1240.